

WHAT IS CLAIMED IS:

1. A rotational velocity controlling system in an information recording/reproducing apparatus which records and reproduces information on/from an information recording
5 medium, the system comprising:

revolution number detecting means for detecting the number of revolutions of the information recording medium;

linear velocity detecting means for detecting the linear velocity at an information recording/reproduction position on the information recording medium;

10 control information generating means for generating rotation control information used for controlling the rotational velocity of the information recording medium based on the revolution number information obtained by the revolution number detecting means and the linear velocity information obtained by the linear velocity detecting means; and

15 driving means for rotating the information recording medium based on the rotation control information generated by the control information generating means.

2. The rotational velocity controlling system of claim 1, wherein:

the control information generating means uses the revolution number
20 information obtained by the revolution number detecting means and the linear velocity information obtained by the linear velocity detecting means to divide one of these information by the other;

the control information generating means generates a revolution number error from the revolution number information based on an operation result value obtained
25 by the division; and

the control information generating means outputs the revolution number error as the rotation control information to the driving means.

3. The rotational velocity controlling system of claim 2, wherein the control information
5 generating means includes numerical range limiting means for limiting the numerical range of the operation result value.

4. The rotational velocity controlling system of claim 3, wherein the numerical range
limiting means is upper limit means for limiting an operation result value which exceeds a
10 predetermined value to the predetermined value.

5. The rotational velocity controlling system of claim 1, further comprising abnormality
detecting means for detecting occurrence of an abnormality in the output of the linear
velocity detecting means according to the relationship between the revolution number
15 information and the linear velocity information.